

Title (en)  
LIQUID-COOLED CONTACT ELEMENT

Title (de)  
FLÜSSIGKEITSGEKÜHLTES KONTAKTELEMENT

Title (fr)  
ÉLÉMENT DE CONTACT REFROIDI PAR LIQUIDE

Publication  
**EP 3482462 A1 20190515 (DE)**

Application  
**EP 17745974 A 20170630**

Priority  
• DE 102016112306 A 20160705  
• DE 2017100550 W 20170630

Abstract (en)  
[origin: WO2018006903A1] The invention relates to an electrical contact element for a car charging plug connector, which electrical contact element has a contact part (4) and a connection part (3), wherein the connection part (3) can be connected to an electrical conductor (9) of a cable (2). Cooling liquid can be delivered to the contact element (1). As a result, the heat produced on the contact element is extracted directly. Therefore higher currents can be transmitted by means of such a contact element (1) than by means of known contact elements.

IPC 8 full level  
**H01R 13/00** (2006.01); **H01R 4/56** (2006.01)

CPC (source: EP KR US)  
**B60L 53/16** (2019.01 - EP KR US); **B60L 53/18** (2019.01 - EP KR); **B60L 53/302** (2019.01 - US); **H01B 7/423** (2013.01 - US); **H01R 4/56** (2013.01 - KR); **H01R 13/005** (2013.01 - EP KR); **H01R 13/11** (2013.01 - EP); **H01R 13/42** (2013.01 - US); **H01R 13/533** (2013.01 - EP); **H01R 24/20** (2013.01 - US); **H01R 4/56** (2013.01 - EP); **H01R 13/111** (2013.01 - US); **H01R 2101/00** (2013.01 - US); **H01R 2201/26** (2013.01 - US); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 90/12** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP)

Citation (search report)  
See references of WO 2018006903A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102016112306 A1 20180111**; CN 109417237 A 20190301; CN 109417237 B 20201225; EP 3482462 A1 20190515; EP 3482462 B1 20200805; JP 2019517714 A 20190624; JP 6738441 B2 20200812; KR 102174180 B1 20201104; KR 20190022850 A 20190306; US 10632861 B2 20200428; US 2019315239 A1 20191017; WO 2018006903 A1 20180111

DOCDB simple family (application)  
**DE 102016112306 A 20160705**; CN 201780041914 A 20170630; DE 2017100550 W 20170630; EP 17745974 A 20170630; JP 2018562314 A 20170630; KR 20197003056 A 20170630; US 201716305836 A 20170630